

**Notice of Allowability**

Application No.

10/053,275

Examiner

Jill M. Gray

Applicant(s)

HUYNH-TRAN ET AL.

Art Unit

1774

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment of February 5, 2004.
2. ☒ The allowed claim(s) is/are 4-13, 23-26, 28-38, renumbered 1-24.
3. ☒ The drawings filed on 10 June 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

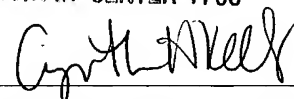
5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 4/22/04.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

CYNTHIA H. KELLY  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1700



### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Roger Criss on April 22, 2004.

The application has been amended as follows:

In the claims:

Please cancel claims 1-3, 14-22, and 27.

Claim 4 (currently amended): An [The] adhesion promoter [of claim 3 wherein the] comprising:

a polymeric strand with an epoxy-reactive group other than a phenolic hydroxyl group and further comprising a crosslinking group;

wherein the crosslinking group is capable of crosslinking the polymeric strand with a rubber in a crosslinking reaction; and

wherein the polymeric strand is water soluble in an amount of no less than 10g/l and wherein said polymeric strand comprises polybutadiene which is grafted with a maleic anhydride and wherein the maleic anhydride is reacted with a compound selected from the group consisting of a methoxy polyethylene glycol, a monoamine terminated polyoxyalkylene, and a monoalcohol terminated polyoxyalkylene.

Claims 5, 7, 8, 10, 11, 12, line 1, change "1" to - 4 --;

Claim 23 (currently amended): The adhesion promoter of claim 4 [1] wherein said polymeric strand is soluble in water in an amount of no less than 30g/l to 200 g/l.

Claim 24 (currently amended): The adhesion promoter of claim 4 [1] wherein the crosslinking group is in a pendent position to the polymeric strand.

**Claim 26 (currently amended):** The adhesion promoter of claim 4 [1] wherein the epoxy-reactive group is selected from the group consisting of non-phenolic hydroxyl groups, amine groups and sulfohydryl groups.

**Claim 28 (currently amended):** The adhesion promoter of claim 4 [27] wherein the maleic anhydride is reacted with a polyalkylene oxide.

**Claim 29 (currently amended):** The adhesion promoter of claim 4 [27] wherein the maleic anhydride is reacted with a methoxy polyethylene glycol.

**Claim 30 (currently amended):** The adhesion promoter of claim 4 [1] which consists essentially of said polymeric strand.

The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or suggest an adhesion promoter essentially as claimed, said adhesion promoter comprising a polymeric strand that is water soluble in an amount of no less than 10g/l and the polymeric strand is polybutadiene grafted with an maleic anhydride and wherein the maleic anhydride is reacted with a compound selected from methoxy polyethylene glycol, monoamine terminated polyoxyalkylene or monoalcohol terminated polyoxyalkylene.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill M. Gray whose telephone number is 571-272-1524. The examiner can normally be reached on M-F 10:30-7:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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